

03-15-SEQ LIST-410\_ST25  
SEQUENCE LISTING

<110> Sanofi Pasteur, Inc.  
<120> METHODS FOR PURIFYING PERTUSSIS TOXIN AND PEPTIDES USEFUL  
THEREFOR  
<130> API-03-15  
<140> 10/579,655  
<141> 2006-05-18  
<150> 60/523,881  
<151> 2003-11-20  
<150> PCT/US2004/038700  
<151> 2004-11-18  
<160> 414  
<170> PatentIn version 3.5  
<210> 1  
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<213> Gymnea sylvestre  
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Asn Gly Ser Phe Ser Gly Phe  
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Asn Gly Ser Phe Ser Gly Cys  
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Asp Gly Ser Phe Ser Gly Phe  
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<222> (1)..(7)  
<223> X is any amino acid

<400> 4

Xaa Gly Ser Phe Ser Gly Xaa  
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Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly  
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Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala  
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Ser Thr Met Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn  
1 5 10 15

His Val Lys Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala  
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Arg Ser Asn Val Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp  
1 5 10 15

Asp Arg Pro His Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala  
20 25 30

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<210> 8  
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<400> 8

Arg Ser Trp Arg Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro  
 1 5 10 15

Leu Ala Ile Asp Ser Tyr Trp Asp His Thr Leu Arg Asp Ala  
 20 25 30

<210> 9  
 <211> 34  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 9

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val  
 1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr  
 20 25 30

Cys Gly

<210> 10  
 <211> 34  
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<400> 10

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu  
 1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg  
 20 25 30

Cys Gly

<210> 11  
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<400> 11

03-15-SEQ LIST-410\_ST25

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met  
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile  
20 25 30

Cys Gly Ser  
35

<210> 12  
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<212> PRT  
<213> Gymnea sylvestre

<400> 12

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu  
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys  
20 25 30

Cys Gly

<210> 13  
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<213> Gymnea sylvestre

<400> 13

Gln Gln Cys Val Lys Lys Asp Glu Leu Cys Ile Pro Tyr Tyr Leu Asp  
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Lys Lys Val Asn Trp Trp Asp His Lys  
20 25 30

Cys Ile Gly  
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<213> Gymnea sylvestre

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03-15-SEQ LIST-410\_ST25

Cys Val Lys Lys Asp Glu Leu Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys  
1 5 10 15

Glu Pro Leu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
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<223> n is a, g, t or c

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agcggcagtt ctgggtctag c 141

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catagtggct caagctcagg atca 84

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<222> (18)..(43)

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Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala Asn Ala Pro  
35 40 45

Lys Ala Ser Ala Ile  
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<210> 20

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<220>

<223> Synthetic sequence, no source organism

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His His His His His His  
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<211> 6

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<400> 21

Asp Ala Asn Ala Pro Lys  
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<210> 22

<211> 127

<212> DNA

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<210> 23  
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 <212> DNA  
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<400> 23  
 taatacgact catagggaca attactatntt acaattacaa tgggacgtgg ctcacatcat 60  
 catcatcatc atgctagatc t 81

<210> 24  
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 <212> DNA  
 <213> *Gymnea sylvestre*

<400> 24  
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<210> 25  
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 <212> DNA  
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<400> 25  
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<210> 26  
 <211> 54  
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<400> 26  
 Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 27

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<211> 54  
 <212> PRT  
 <213> *Gymnema sylvestre*  
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Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu  
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 Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser  
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<210> 28  
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Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser  
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<210> 29  
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Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser  
 35 40 45



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Gly Ser Ser Gly Ser Ser  
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<210> 30  
<211> 54  
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<213> Gymnea sylvestre

<400> 30

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
50

<210> 31  
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<212> PRT  
<213> Gymnea sylvestre

<400> 31

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser  
50

<210> 32  
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<212> PRT  
<213> Gymnea sylvestre

<400> 32

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu  
Page 9

20

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 33  
<211> 54  
<212> PRT  
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<400> 33

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
50

<210> 34  
<211> 54  
<212> PRT  
<213> Gymnea sylvestre

<400> 34

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 35  
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<213> Gymnea sylvestre

<400> 35

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 36  
<211> 53  
<212> PRT  
<213> Gymnea sylvestre

<400> 36

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser  
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<210> 37  
<211> 54  
<212> PRT  
<213> Gymnea sylvestre

<400> 37

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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03-15-SEQ LIST-410\_ST25

<210> 38  
 <211> 54  
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<400> 38

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 39  
 <211> 54  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 39

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 40  
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<400> 40

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser  
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<210> 41  
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<400> 41

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser  
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<210> 42  
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<400> 42

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 43  
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<212> PRT  
<213> Gymnea sylvestre  
<400> 43

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

03-15-SEQ LIST-410\_ST25

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 44  
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Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 45  
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<400> 45

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 46  
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<213> Gymnea sylvestre

03-15-SEQ LIST-410\_ST25

<400> 46

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Asn Trp Val Thr Pro Met Arg Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
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<210> 47

<211> 50

<212> PRT

<213> Gymnea sylvestre

<400> 47

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asp Trp  
1 5 10 15

Glu Leu Ser Pro Pro His Val Ala Ile Thr Thr Arg His Leu Ile Asn  
20 25 30

Cys Thr Asp Gly Pro Leu Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 48

<211> 50

<212> PRT

<213> Gymnea sylvestre

<400> 48

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Asn  
1 5 10 15

Gly Glu Ser Thr Ser Asn Ile Leu Thr Thr Ser Arg Lys Val Thr Glu  
20 25 30

Trp Thr Gly Tyr Thr Ala Ser Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

03-15-SEQ LIST-410\_ST25

<210> 49  
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 <222> (41)..(41)  
 <223> X is any amino acid

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 1 5 10 15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys  
 20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Xaa Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 50  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 50

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Ile  
 1 5 10 15

Val Ile His Asn Ala Ile Gln Thr His Thr Pro His Gln Val Ser Ile  
 20 25 30

Trp Cys Pro Pro Lys His Asn Arg Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 51  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 51

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser His  
 1 5 10 15



03-15-SEQ LIST-410\_ST25

Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly Asn Met Arg Ile  
20 25 30

Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 52  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 52

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 53  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 53

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 54  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

03-15-SEQ LIST-410\_ST25

<400> 54

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 55

<211> 50

<212> PRT

<213> Gymnea sylvestre

<400> 55

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 56

<211> 49

<212> PRT

<213> Gymnea sylvestre

<400> 56

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Met Asn Thr Asp Arg Gly Thr Tyr Val  
20 25 30

Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

03-15-SEQ LIST-410\_ST25

<210> 57  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 57

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gly  
 1 5 10 15

Leu Ser Gly Thr Gln Thr Trp Lys Ile Thr Lys Leu Ala Thr Arg Leu  
 20 25 30

His His Pro Glu Phe Glu Thr Asn Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 58  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 58

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
 1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala  
 20 25 30

Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Asn  
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<210> 59  
 <211> 49  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 59

Met Gly Arg Gly Ser His His His His His His Leu Asp Leu Trp Gly  
 1 5 10 15

Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Gly Thr Ser Thr  
 20 25 30

03-15-SEQ LIST-410\_ST25

Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro  
35 40 45

His

<210> 60  
<211> 49  
<212> PRT  
<213> Gymnea sylvestre

<400> 60

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gln  
1 5 10 15

Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly  
20 25 30

Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 61  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 61

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp  
20 25 30

Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 62  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 62

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

03-15-SEQ LIST-410\_ST25

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 63  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre  
<400> 63

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Pro  
1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp  
20 25 30

Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala  
35 40 45

Ser Ala  
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<210> 64  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre  
<400> 64

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 65  
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03-15-SEQ LIST-410\_ST25

<213> Gymnea sylvestre

<400> 65

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
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<210> 66

<211> 50

<212> PRT

<213> Gymnea sylvestre

<400> 66

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 67

<211> 31

<212> PRT

<213> Gymnema sylvestre

<400> 67

Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly  
1 5 10 15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Lys  
20 25 30

<210> 68

<211> 30

<212> PRT

<213> Gymnema sylvestre

03-15-SEQ LIST-410\_ST25

<400> 68

Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly  
1 5 10 15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala  
20 25 30

<210> 69

<211> 30

<212> PRT

<213> *Gymnema sylvestre*

<400> 69

Arg Ser Thr Met Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr  
1 5 10 15

Asn His Val Lys Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala  
20 25 30

<210> 70

<211> 30

<212> PRT

<213> *Gymnema sylvestre*

<400> 70

Arg Ser Asn Val Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp  
1 5 10 15

Asp Arg Pro His Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala  
20 25 30

<210> 71

<211> 30

<212> PRT

<213> *Gymnema sylvestre*

<400> 71

Arg Ser Trp Arg Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro  
1 5 10 15

Leu Ala Ile Asp Ser Tyr Trp Asp His Thr Leu Arg Asp Ala  
20 25 30

<210> 72

<211> 35

<212> PRT

<213> *Gymnema sylvestre*

<400> 72

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val  
Page 23

1                      5                      10                      15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr  
20                      25                      30

Cys Gly Lys  
35

<210> 73  
<211> 34  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 73

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val  
1                      5                      10                      15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr  
20                      25                      30

Cys Gly

<210> 74  
<211> 34  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 74

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu  
1                      5                      10                      15

Cys Cys Glu Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg  
20                      25                      30

Cys Gly

<210> 75  
<211> 35  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 75

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met  
1                      5                      10                      15

Cys Cys Glu Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile  
20                      25                      30



03-15-SEQ LIST-410\_ST25

Cys Gly Ser  
35

<210> 76  
<211> 34  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 76

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu  
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys  
20 25 30

Cys Gly

<210> 77  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 77  
catgccatgg gacgtggctc acatcatc 28

<210> 78  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 78  
gggttaaata gcggatgcct tcggagcgtt agcgtc 36

<210> 79  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 79  
ggagatctca tatgcacat caccatcacc atagtggc 38

<210> 80  
<211> 26  
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 80

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26

<210> 81

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 81

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 82

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 82

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 83

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 83

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
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## 03-15-SEQ LIST-410\_ST25

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 84

<211> 58

<212> PRT

<213> Gymnea sylvestre

<400> 84

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser  
50 55

<210> 85

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 85

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 86

<211> 58

03-15-SEQ LIST-410\_ST25

<212> PRT

<213> Gymnea sylvestre

<400> 86

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Pro Ser Ser Ile Arg Tyr Leu  
50 55

<210> 87

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 87

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 88

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 88

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser  
35 40 45

## 03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 89

<211> 55

<212> PRT

<213> Gymnea sylvestre

<400> 89

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Gly  
 50 55

<210> 90

<211> 60

<212> PRT

<213> Gymnema sylvestre

<400> 90

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 91

<211> 59

<212> PRT

<213> Gymnema sylvestre

<400> 91

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
 20 25 30

03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55

<210> 92  
<211> 60  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 92

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 93  
<211> 60  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 93

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 94  
<211> 60  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 94

## 03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 95

<211> 60

<212> PRT

<213> *Gymnema sylvestre*

<400> 95

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 96

<211> 59

<212> PRT

<213> *Gymnema sylvestre*

<400> 96

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly  
 35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55

<210> 97

03-15-SEQ LIST-410\_ST25

<211> 57  
 <212> PRT  
 <213> *Gymnema sylvestre*  
 <400> 97

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser Gly Ser Asn  
 50 55

<210> 98  
 <211> 60  
 <212> PRT  
 <213> *Gymnema sylvestre*  
 <400> 98

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Gly Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 99  
 <211> 60  
 <212> PRT  
 <213> *Gymnema sylvestre*  
 <400> 99

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly Ser  
 35 40 45



03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 100  
<211> 60  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 100

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 101  
<211> 60  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 101

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Asn Trp Val Thr Pro Met Arg Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 102  
<211> 62  
<212> PRT  
<213> *Gymnea sylvestre*

<400> 102

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 103  
<211> 62  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 103

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr Ala Ser Ala Ile  
50 55 60

<210> 104  
<211> 50  
<212> PRT  
<213> *Gymnea sylvestre*

<400> 104

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ile  
50

<210> 105  
<211> 62  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 105

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 106  
<211> 62  
<212> PRT  
<213> *Gymnema sylvestre*

<400> 106

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Arg Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 107  
<211> 52  
<212> PRT  
<213> *Gymnea sylvestre*

<400> 107

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly  
50

03-15-SEQ LIST-410\_ST25

<210> 108  
 <211> 49  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 108

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly

<210> 109  
 <211> 58  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 109

Leu His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Asp Pro  
 50 55

<210> 110  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 110

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Asn  
50

<210> 111  
<211> 46  
<212> PRT  
<213> Gymnea sylvestre  
<400> 111

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys  
35 40 45

<210> 112  
<211> 54  
<212> PRT  
<213> Gymnea sylvestre  
<400> 112

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Asn  
50

<210> 113  
<211> 48  
<212> PRT  
<213> Gymnea sylvestre  
<400> 113

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Lys Arg Phe Ser Phe Cys Cys Glu  
20 25 30

## 03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

<210> 114

<211> 48

<212> PRT

<213> Gymnea sylvestre

<400> 114

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Lys Arg Phe Ser Phe Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Asn  
 35 40 45

<210> 115

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 115

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Ile Arg Phe Val Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Asp Cys Gly Thr Cys Met Phe Tyr Ser Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
 50 55 60

<210> 116

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 116

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 117  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre  
<400> 117

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Thr Gln Thr Arg Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Arg Phe Leu Arg Ser His Ala Arg Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 118  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre  
<400> 118

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Lys Arg Tyr Arg Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Ile Leu Gln Phe Met Asn Lys Met Phe Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 119  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre  
<400> 119

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Trp  
1 5 10 15

03-15-SEQ LIST-410\_ST25

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 120  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre

<400> 120

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 121  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre

<400> 121

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Ser Arg Ile Trp Ala Cys Cys Gly  
20 25 30

Pro Leu Glu Cys Leu Met Arg Phe Met Ala Lys Arg Phe Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 122  
<211> 52  
<212> PRT  
<213> Gymnea sylvestre



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&lt;400&gt; 122

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Ala Lys Lys Asp Glu Leu Cys Ser Pro Ala Arg Arg Ile Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Arg Arg Trp Tyr Glu Glu Ser Phe Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly  
 50

&lt;210&gt; 123

&lt;211&gt; 62

&lt;212&gt; PRT

<213> *Gymnea sylvestre*

&lt;400&gt; 123

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Met Asn Glu Val Cys Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Tyr Gly Asp Ile Ser Gly Glu Ala Met Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
 50 55 60

&lt;210&gt; 124

&lt;211&gt; 62

&lt;212&gt; PRT

<213> *Gymnea sylvestre*

&lt;400&gt; 124

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
 50 55 60

03-15-SEQ LIST-410\_ST25

<210> 125  
 <211> 62  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 125

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
 50 55 60

<210> 126  
 <211> 55  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 126

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Ser Gly Leu Met Asn Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Trp Arg Trp Met Gln Lys Gln Gln Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser His  
 50 55

<210> 127  
 <211> 55  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 127

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Arg Pro Ala Ile Thr Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Arg Ile Tyr Met Arg Leu Trp Arg Cys Gly Ser  
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35

40

45

Gly Ser Ser Gly Ser Ser Leu  
 50 55

<210> 128  
 <211> 56  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 128

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Leu Asp Ser Ala Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Val Trp Gln Asn Asp Asn Tyr Gly Thr Cys Gly Arg  
 35 40 45

Ala Val Leu Gly Leu Ala His Pro  
 50 55

<210> 129  
 <211> 50  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 129

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Val Gln Ile Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Phe His Ile Val Trp Cys Pro Trp Ala Cys Thr Ala  
 35 40 45

Val His  
 50

<210> 130  
 <211> 51  
 <212> PRT  
 <213> Gymnema sylvestre

<400> 130

Met His His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

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Val Lys Lys Asp Glu Leu Cys Leu Met Arg Val Leu Arg Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Trp Val Gly Gly Val Cys Arg Gly Gly Cys Gly Ser  
35 40 45

Gly Ser Tyr  
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<210> 131  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre

<400> 131

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Lys Ile Phe Lys Arg Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Ser Trp Val Val Trp Phe Pro Tyr Ser Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 132  
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<212> PRT  
<213> Gymnea sylvestre

<400> 132

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Lys Ile Asn Ala Lys Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Arg Phe Lys Phe Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 133  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre

03-15-SEQ LIST-410\_ST25

<400> 133

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 134

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 134

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Gly Leu Leu Thr Ser Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Trp Val Leu His His Phe Val Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 135

<211> 58

<212> PRT

<213> Gymnea sylvestre

<400> 135

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr  
50 55

03-15-SEQ LIST-410\_ST25

<210> 136  
 <211> 52  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 136

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly  
 50

<210> 137  
 <211> 60  
 <212> PRT  
 <213> Gymnema sylvestre

<400> 137

Met His His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Asn Val Arg Thr Pro Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Asp Leu Phe Leu Thr Phe Leu Phe Leu Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn  
 50 55 60

<210> 138  
 <211> 57  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 138

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
 20 25 30

03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Ala  
35 40 45

Val Leu Gly Pro Ser Ser Ile Arg Tyr  
50 55

<210> 139  
<211> 56  
<212> PRT  
<213> Gymnea sylvestre

<400> 139

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Trp Trp Leu Thr Leu Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg His Ile Cys Leu Val Ser Pro Cys Gly Arg  
35 40 45

Ala Val Leu Gly Leu Ala His Pro  
50 55

<210> 140  
<211> 62  
<212> PRT  
<213> Gymnea sylvestre

<400> 140

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Arg Lys Arg Arg Asn Gly His Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Trp Trp Ala Gly Val Pro Leu Met Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 141  
<211> 62  
<212> PRT  
<213> Gymnema sylvestre

<400> 141

Met His His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

03-15-SEQ LIST-410\_ST25

Val Lys Lys Asp Glu Leu Cys Val Trp Asn Ser Met Pro Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg His Arg Leu Leu Leu Arg Leu Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 142

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 142

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Pro Glu Val Leu Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Arg Arg Trp Phe Gln Lys Arg Met Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 143

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 143

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Ser Arg Met Phe Met Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Asn Cys Pro Leu Ile Met Phe Ile Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 144

<211> 62

<212> PRT



03-15-SEQ LIST-410\_ST25

<213> Gymnea sylvestre

<400> 144

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 145

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 145

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys His Ala Trp Tyr Thr Phe Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Gln Arg Lys Phe Gly Gly Tyr Trp Ala Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile  
50 55 60

<210> 146

<211> 62

<212> PRT

<213> Gymnea sylvestre

<400> 146

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Glu Asp Met Thr Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Pro Ala Leu Glu Ser Val Val Leu Gln Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50

55

<210> 147  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 147

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Cys Trp Gln Trp Thr Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Glu Leu Gln Trp Gly Ile Ile Arg Met Cys Gly Ser  
35 40 45

Gly Asn  
50

<210> 148  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 148

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 149  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 149

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

<210> 150  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 150

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Phe Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 151  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre

<400> 151

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys Val  
1 5 10 15

Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu Pro  
20 25 30

Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55

<210> 152  
<211> 60  
<212> PRT  
<213> Gymnema sylvestre

<400> 152

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Asp Cys  
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## 03-15-SEQ LIST-410\_ST25

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 153

<211> 50

<212> PRT

<213> Gymnea sylvestre

<400> 153

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Asn  
50

<210> 154

<211> 60

<212> PRT

<213> Gymnema sylvestre

<400> 154

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Gly  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 155

<211> 47

03-15-SEQ LIST-410\_ST25

<212> PRT  
<213> Gymnea sylvestre

<400> 155

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly  
35 40 45

<210> 156  
<211> 46  
<212> PRT  
<213> Gymnea sylvestre

<400> 156

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys  
35 40 45

<210> 157  
<211> 48  
<212> PRT  
<213> Gymnea sylvestre

<400> 157

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg  
35 40 45

<210> 158  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 158

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

## 03-15-SEQ LIST-410\_ST25

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Phe Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Asn  
50 55 60

<210> 159

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 159

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Phe Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 160

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 160

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Trp Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 161

<211> 60

03-15-SEQ LIST-410\_ST25

<212> PRT

<213> *Gymnema sylvestre*

<400> 161

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Val Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 162

<211> 55

<212> PRT

<213> *Gymnea sylvestre*

<400> 162

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser His  
50 55

<210> 163

<211> 59

<212> PRT

<213> *Gymnea sylvestre*

<400> 163

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Arg Ser Pro Thr Leu Ser Cys Cys Glu Pro Leu Glu  
20 25 30

Cys Leu Arg Val Tyr Leu Glu His Trp Phe Cys Gly Ser Gly Ser Gly  
35 40 45

03-15-SEQ LIST-410\_ST25

Ser Ser Leu Val Ala Ser Ala Ser Ala Ile Asn  
50 55

<210> 164  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 164

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Gln Leu Cys Ala Leu His Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Arg Met Met Phe Leu Val His Arg Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 165  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 165

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Asn Trp Val Thr Pro Met Arg Cys Glu  
20 25 30

Pro Leu Glu Cys Val Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 166  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 166

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu  
20 25 30



03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Val Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 167  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 167

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 168  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 168

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Lys Tyr His Gly Tyr Phe Trp Leu Cys Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Glu  
50 55

<210> 169  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 169

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Val Trp Tyr Arg Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Thr Pro Asp Trp Ser Gly Ile Leu Tyr Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 170

<211> 52

<212> PRT

<213> Gymnea sylvestre

<400> 170

Ser Ser Ser Gly Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu  
1 5 10 15

Ala Ile Asp Val Cys Cys Glu Pro Leu Glu Cys Val Leu Gly His Gly  
20 25 30

Leu Gly Tyr Ala Tyr Cys Gly Ser Gly Ser Ser Gly Ser Ser Leu Val  
35 40 45

Ala Ser Ala Ile  
50

<210> 171

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 171

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 172

03-15-SEQ LIST-410\_ST25

<211> 60  
 <212> PRT  
 <213> *Gymnema sylvestre*

<400> 172

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Val Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 173  
 <211> 58  
 <212> PRT  
 <213> *Gymnea sylvestre*

<400> 173

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ile Leu Gly Leu Ala His Pro Leu Phe  
 50 55

<210> 174  
 <211> 60  
 <212> PRT  
 <213> *Gymnea sylvestre*

<400> 174

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Val Phe  
 50 55 60

<210> 175  
 <211> 56  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 175

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Leu Gly Leu Ala His Pro  
 50 55

<210> 176  
 <211> 54  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 176

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Arg  
 50

<210> 177  
 <211> 53  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 177

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 Page 60

20

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Leu  
50

<210> 178  
<211> 55  
<212> PRT  
<213> Gymnea sylvestre

<400> 178

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser His  
50 55

<210> 179  
<211> 54  
<212> PRT  
<213> Gymnea sylvestre

<400> 179

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser  
50

<210> 180  
<211> 54  
<212> PRT  
<213> Gymnea sylvestre

<400> 180

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Arg  
50

<210> 181  
<211> 45  
<212> PRT  
<213> Gymnea sylvestre

<400> 181

Ser Gly Ser Ser Ser Gly Ser Gly Cys Val Lys Lys Asp Glu Leu Cys  
1 5 10 15

Glu Leu Ala Ile Asp Val Cys Cys Glu Pro Leu Glu Cys Leu Gly His  
20 25 30

Gly Leu Gly Tyr Ala Tyr Cys Gly Ser Gly Ser Ser Gly  
35 40 45

<210> 182  
<211> 52  
<212> PRT  
<213> Gymnea sylvestre

<400> 182

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Asp  
50

<210> 183  
<211> 51  
<212> PRT  
<213> Gymnea sylvestre

03-15-SEQ LIST-410\_ST25

<400> 183

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser  
50

<210> 184

<211> 51

<212> PRT

<213> *Gymnea sylvestre*

<400> 184

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Tyr  
50

<210> 185

<211> 51

<212> PRT

<213> *Gymnea sylvestre*

<400> 185

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Cys Ser Tyr  
50

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<210> 186  
 <211> 50  
 <212> PRT  
 <213> *Gymnea sylvestre*

<400> 186

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Arg  
 50

<210> 187  
 <211> 49  
 <212> PRT  
 <213> *Gymnea sylvestre*

<400> 187

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Thr  
 35 40 45

Ala

<210> 188  
 <211> 49  
 <212> PRT  
 <213> *Gymnema sylvestre*

<400> 188

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30



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Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly

<210> 189  
<211> 45  
<212> PRT  
<213> Gymnea sylvestre

<400> 189

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr  
35 40 45

<210> 190  
<211> 60  
<212> PRT  
<213> Gymnema sylvestre

<400> 190

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Val Phe  
50 55 60

<210> 191  
<211> 51  
<212> PRT  
<213> Gymnea sylvestre

<400> 191

Met His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys Val Lys Lys  
1 5 10 15

Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu Pro Leu Glu  
20 25 30

03-15-SEQ LIST-410\_ST25

Cys Trp Leu Gly His Gly Leu Gly Tyr Ala His Cys Gly Ser Gly Ser  
35 40 45

Ser Gly Ser  
50

<210> 192  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre

<400> 192

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Val Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly  
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 193  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 193

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser  
50

<210> 194  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 194

## 03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Tyr  
 50

<210> 195

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 195

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Arg  
 50

<210> 196

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 196

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 197

03-15-SEQ LIST-410\_ST25

<211> 58  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 197

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Thr  
 35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
 50 55

<210> 198  
 <211> 60  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 198

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
 50 55 60

<210> 199  
 <211> 60  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 199

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 200  
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<212> PRT  
<213> Gymnea sylvestre

<400> 200

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Asp  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 201  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 201

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Ala Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ile Arg Tyr  
50 55 60

<210> 202  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre

<400> 202

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
Page 69

20

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala  
50 55

<210> 203  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 203

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

<210> 204  
<211> 57  
<212> PRT  
<213> Gymnea sylvestre

<400> 204

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala  
50 55

<210> 205  
<211> 55  
<212> PRT  
<213> Gymnea sylvestre

<400> 205

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser His  
50 55

<210> 206

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 206

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Pro Ser Ser Ile Arg Tyr  
50 55 60

<210> 207

<211> 58

<212> PRT

<213> Gymnea sylvestre

<400> 207

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Thr  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

03-15-SEQ LIST-410\_ST25

<210> 208  
 <211> 58  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 208

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Arg Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Leu Gly Leu Ala His Pro Leu Phe  
 50 55

<210> 209  
 <211> 53  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 209

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser  
 50

<210> 210  
 <211> 58  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 210

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg  
 35 40 45



03-15-SEQ LIST-410\_ST25

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

<210> 211  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre  
<400> 211

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser  
50 55

<210> 212  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre  
<400> 212

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 213  
<211> 61  
<212> PRT  
<213> Gymnea sylvestre  
<400> 213

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

03-15-SEQ LIST-410\_ST25

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile Tyr  
50 55 60

<210> 214  
<211> 51  
<212> PRT  
<213> Gymnea sylvestre  
<400> 214

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Tyr  
50

<210> 215  
<211> 57  
<212> PRT  
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<220>  
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<222> (57)..(57)  
<223> X is any amino acid  
<400> 215

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Glu Xaa  
50 55

03-15-SEQ LIST-410\_ST25

<210> 216  
 <211> 61  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 216

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Arg Tyr  
 50 55 60

<210> 217  
 <211> 47  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 217

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly  
 35 40 45

<210> 218  
 <211> 56  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 218

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Asp

50

55

<210> 219  
 <211> 54  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 219

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Val Leu Gly Leu Ala  
 50

<210> 220  
 <211> 59  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 220

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala  
 50 55

<210> 221  
 <211> 61  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 221

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu Cys Cys Glu  
 20 25 30

03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile Tyr  
50 55 60

<210> 222  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre

<400> 222

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Glu Phe Trp Val Pro Ser Ser Ile Arg Tyr Leu  
50 55

<210> 223  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 223

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser  
50 55

<210> 224  
<211> 53  
<212> PRT  
<213> Gymnea sylvestre

<400> 224

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
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1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser  
50

<210> 225

<211> 55

<212> PRT

<213> Gymnea sylvestre

<400> 225

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser His  
50 55

<210> 226

<211> 58

<212> PRT

<213> Gymnea sylvestre

<400> 226

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

<210> 227

<211> 54

03-15-SEQ LIST-410\_ST25

<212> PRT

<213> Gymnea sylvestre

<400> 227

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ile Leu Gly Leu Ala  
50

<210> 228

<211> 60

<212> PRT

<213> Gymnea sylvestre

<400> 228

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn  
50 55 60

<210> 229

<211> 57

<212> PRT

<213> Gymnea sylvestre

<400> 229

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

## 03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu Val Ala  
 50 55

<210> 230  
 <211> 52  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 230

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Asp  
 50

<210> 231  
 <211> 60  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 231

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Phe  
 50 55 60

<210> 232  
 <211> 56  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 232

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30



03-15-SEQ LIST-410\_ST25

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val  
50 55

<210> 233  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 233

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Leu Ala His Pro Leu Phe  
50 55

<210> 234  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 234

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn  
50 55 60

<210> 235  
<211> 50  
<212> PRT  
<213> Gymnea sylvestre

<400> 235

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Arg  
50

<210> 236  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre  
<400> 236

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr  
50 55

<210> 237  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre  
<400> 237

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala  
50 55

<210> 238

03-15-SEQ LIST-410\_ST25

<211> 60  
 <212> PRT  
 <213> *Gymnea sylvestre*  
 <400> 238

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn  
 50 55 60

<210> 239  
 <211> 59  
 <212> PRT  
 <213> *Gymnea sylvestre*  
 <400> 239

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Gly Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala  
 50 55

<210> 240  
 <211> 55  
 <212> PRT  
 <213> *Gymnea sylvestre*  
 <400> 240

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
 1 5 10 15  
 Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
 20 25 30  
 Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
 35 40 45

03-15-SEQ LIST-410\_ST25

Gly Ser Ser Gly Ser Ser Leu  
50 55

<210> 241  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 241

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Leu Gly Leu Ala His Pro Leu Tyr  
50 55

<210> 242  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 242

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55 60

<210> 243  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 243

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
Page 84

20

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Arg Tyr  
50 55 60

<210> 244  
<211> 56  
<212> PRT  
<213> Gymnea sylvestre

<400> 244

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu  
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser  
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val  
50 55

<210> 245  
<211> 60  
<212> PRT  
<213> Gymnea sylvestre

<400> 245

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu  
20 25 30

Leu Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile Tyr  
50 55 60

<210> 246  
<211> 58  
<212> PRT  
<213> Gymnea sylvestre

<400> 246

03-15-SEQ LIST-410\_ST25

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala  
1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser  
20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
50 55

<210> 247  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre

<400> 247

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala  
1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser  
20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala  
35 40 45

Ala Val Leu Gly Leu Ala His Pro Pro Ile Tyr  
50 55

<210> 248  
<211> 56  
<212> PRT  
<213> Gymnea sylvestre

<400> 248

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala  
1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser  
20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala  
35 40 45

Ala Val Leu Gly Leu Ala His His  
50 55

03-15-SEQ LIST-410\_ST25

<210> 249  
 <211> 57  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 249

Met His His His His His His Ser Gly Lys Leu Arg Ile Leu Arg Gln  
 1 5 10 15

Glu Arg Arg Ala Leu Arg Ala Gly Asp Arg Arg Val Leu Ala Pro Arg  
 20 25 30

Val Leu Gly Ala Arg Pro Gly Val Arg Val Leu Arg Gln Arg Gln Phe  
 35 40 45

Trp Val Pro Ser Ser Ile Arg Tyr Leu  
 50 55

<210> 250  
 <211> 58  
 <212> PRT  
 <213> Gymnema sylvestre

<400> 250

Met His His His His His His Ser Gly Ser Thr Gln Asp Gln Ala Ala  
 1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser  
 20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala  
 35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe  
 50 55

<210> 251  
 <211> 54  
 <212> PRT  
 <213> Gymnea sylvestre

<400> 251

Met His His His His His Gln Val Ala Gln Leu Arg Ile Arg Leu Arg  
 1 5 10 15

Gln Glu Arg Arg Ala Leu Arg Ala Gly Asp Arg Arg Val Leu Ala Pro  
 20 25 30

Arg Val Leu Gly Ala Arg Pro Gly Val Arg Val Leu Arg Gln Arg Gln  
 35 40 45

03-15-SEQ LIST-410\_ST25

Phe Trp Val Pro Ser Ser  
50

<210> 252  
<211> 59  
<212> PRT  
<213> Gymnea sylvestre  
<400> 252

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys  
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu  
20 25 30

Leu Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly  
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile  
50 55

<210> 253  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 253

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 254  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence



03-15-SEQ LIST-410\_ST25

<400> 254

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 255

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 255

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp  
20 25 30

Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 256

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 256

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
Page 89

Ala Ile  
50

<210> 257  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 257

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Pro  
1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp  
20 25 30

Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala  
35 40 45

Ser Ala  
50

<210> 258  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 258

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr  
20 25 30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 259  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence

<400> 259

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 260

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 260

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 261

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 261

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asp Trp  
1 5 10 15

Glu Leu Ser Pro Pro His Val Ala Ile Thr Thr Arg His Leu Ile Asn  
Page 91

20

Cys Thr Asp Gly Pro Leu Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 262  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 262

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Asn  
1 5 10 15

Gly Glu Ser Thr Ser Asn Ile Leu Thr Thr Ser Arg Lys Val Thr Glu  
20 25 30

Trp Thr Gly Tyr Thr Ala Ser Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 263  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<220>  
<221> MISC\_FEATURE  
<222> (41)..(41)  
<223> X is any amino acid

<400> 263

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gln Val  
1 5 10 15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys  
20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Xaa Ala Asn Ala Pro Lys Ala Ser  
35 40 45

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Ala Ile  
50

<210> 264  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 264

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Ile  
1 5 10 15

Val Ile His Asn Ala Ile Gln Thr His Thr Pro His Gln Val Ser Ile  
20 25 30

Trp Cys Pro Pro Lys His Asn Arg Asp Asp Ala Asn Ala Pro Lys Ala  
35 40 45

Ser Ala  
50

<210> 265  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 265

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser His  
1 5 10 15

Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly Asn Met Arg Ile  
20 25 30

Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 266  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence

<400> 266

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gly  
1 5 10 15

Leu Ser Gly Thr Gln Thr Trp Lys Ile Thr Lys Leu Ala Thr Arg Leu  
20 25 30

His His Pro Glu Phe Glu Thr Asn Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 267

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 267

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala  
20 25 30

Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Asn  
50

<210> 268

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 268

Met Gly Arg Gly Ser His His His His His His Leu Asp Leu Trp Gly  
1 5 10 15

Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Gly Thr Ser Thr  
20 25 30

03-15-SEQ LIST-410\_ST25

Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro  
35 40 45

His

<210> 269  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 269

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gln  
1 5 10 15

Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly  
20 25 30

Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 270  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence

<400> 270

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 271

03-15-SEQ LIST-410\_ST25

<211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence

<400> 271

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
 1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
 20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 272  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 272

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
 1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
 20 25 30

His Leu Glu Trp Tyr Pro Thr Ala Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 273  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 273

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Asp  
 1 5 10 15



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Thr Ala Arg Thr Thr Ala Thr Leu Leu Thr Asn Asp Glu Asp Arg Lys  
20 25 30

Thr His Trp Arg Met Phe Tyr Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 274  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 274

Met Gly Arg Gly Ser His His His His Tyr His Ala Arg Ser Lys Asp  
1 5 10 15

Thr Ala Arg Thr Thr Ala Thr Leu Leu Thr Asn Asp Glu Asp Arg Lys  
20 25 30

Thr His Trp Arg Met Phe Tyr Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 275  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 275

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Pro  
1 5 10 15

Arg Leu Arg Lys Val Tyr Asp Leu Thr Val Thr Thr Thr Ser Ser Gln  
20 25 30

Ile Asp Lys Leu Gln Pro Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile

50

<210> 276  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 276

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser His  
 1 5 10 15

Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly Asn Met Arg Ile  
 20 25 30

Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 277  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 277

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Asp Trp  
 1 5 10 15

Glu Leu Ser Pro Pro His Val Ala Ile Thr Thr Arg His Leu Ile Asn  
 20 25 30

Cys Thr Asp Gly Pro Leu Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 278  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

03-15-SEQ LIST-410\_ST25

<400> 278

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Ser  
1 5 10 15

Leu Ala Gln Tyr Tyr Trp Thr Ala Gln Arg Asp Met His Leu Leu Ile  
20 25 30

Met His Lys Phe Met Asp Met Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 279

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence, no source organism

<400> 279

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Ile  
1 5 10 15

Val Ile His Asn Ala Ile Gln Thr His Thr Pro His Gln Val Ser Ile  
20 25 30

Trp Cys Pro Pro Lys His Asn Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 280

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence, no source organism

<400> 280

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Phe  
1 5 10 15

Arg Gln Ile Trp Glu Asn Glu Arg Lys Ala His Arg Met Val Met His  
20 25 30

Gln Phe Tyr Gln Val Ile Arg Pro Asp Ala Asn Ala Pro Lys Ala Ser  
Page 99

Ala Ile  
50

<210> 281  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 281

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Ile  
1 5 10 15

Val Cys Val Cys Thr Thr Ala Gly Asn Tyr Asn His His Asp Gly Phe  
20 25 30

Phe Lys Arg Tyr Asp Asn Ser Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 282  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 282

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Asn  
1 5 10 15

Gly Glu Ser Thr Ser Asn Ile Leu Thr Thr Ser Arg Lys Val Thr Glu  
20 25 30

Trp Thr Gly Tyr Thr Ala Ser Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 283  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 283

Ile Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Tyr  
1 5 10 15

Pro Asp His Gly Arg Tyr Arg Asn Gln Ile Glu Arg Gly Thr Ile Glu  
20 25 30

Met Thr Tyr Ile Asp Thr His Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 284

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 284

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gly Ala Glu  
1 5 10 15

Pro Gly Met Ser Gly Lys Pro Lys Val Thr Thr Trp His His Lys Arg  
20 25 30

Tyr Arg Arg Phe Met Thr His Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 285

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 285

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asp Ile  
1 5 10 15

Asp Thr Ala Glu Val Asn Arg Trp Glu Ser Asn Leu Lys Ser Tyr Leu  
Page 101

Tyr Asn Met Thr Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile  
35 40 45

<210> 286  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 286

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Leu  
1 5 10 15

Thr Gly Gln Ser Leu Tyr Tyr Gln Phe Met Ser Arg Ala Phe Phe Thr  
20 25 30

Leu Gln Lys Phe Thr Gln Asn Leu Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 287  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 287

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Ile  
1 5 10 15

Ala Glu Tyr Trp Leu Thr Glu Arg Met Met His Leu Arg Ala Met Met  
20 25 30

Lys Leu Leu Asn Lys His Ala His Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 288  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 288

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser His Ser  
1 5 10 15

Ala Leu Met His Asp Lys Asp Ser Ser Thr Ser Thr Tyr Tyr Pro Gln  
20 25 30

Tyr Ala Asn Ser Pro Ser Val Gly Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 289

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 289

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser His Leu  
1 5 10 15

Asp Pro Cys Ala Asp Leu Asn Val Thr Gln Gln Arg Thr Thr Arg Glu  
20 25 30

Thr His Ser Asp Asn Glu Asn His Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 290

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 290

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro Leu  
1 5 10 15

Tyr Gln Gly Glu Thr Leu Asn Ala Tyr Ala Pro Gln Ser Met Val Lys  
Page 103

20 03-15-SEQ LIST-410\_ST25  
25 30

Ile Ser Lys Asp Tyr Val Leu His Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 291  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism  
<400> 291

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Tyr Met  
1 5 10 15

Ala Arg Trp His Pro Met Thr His Asn His Met Lys Glu Thr Leu Phe  
20 25 30

Ala Ala Glu Pro His Val Cys Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 292  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism  
<400> 292

Met Gly Arg Gly Ser His His His His His His Ala Arg Pro Arg Phe  
1 5 10 15

His Pro Pro Phe Leu Arg Asp Arg Ser Val Asn Arg Met Ile Met Asn  
20 25 30

Glu His Arg Pro Arg Tyr Ser His Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50



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<210> 293  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 293

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Pro  
 1 5 10 15

Arg Tyr Ala Tyr Cys Gly Ser Arg Trp Asn Gly Ser Arg Met His Asn  
 20 25 30

Asn Lys Phe Thr Pro Ser Thr Arg Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 294  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 294

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Met  
 1 5 10 15

Asn Gln Met Thr Asn Ala Leu Asn Leu Arg Arg Arg Ser Arg Thr Trp  
 20 25 30

Val Ala Thr Phe Arg Ser Glu Asp Ala Asn Ala Pro Lys Ala Ser Ala  
 35 40 45

Ile

<210> 295  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 295

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Asn  
 Page 105

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1                    5                    10                    15

Gly Leu Asp Met Gly Ser Pro Ile Trp Tyr Asn Met Gln Leu Lys Leu  
                   20                    25                    30

Ile Tyr Phe Ser Cys Asn Trp Asn Asp Ala Asn Ala Pro Lys Ala Ser  
                   35                    40                    45

Ala Ile  
       50

<210> 296  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 296

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Arg Val  
 1                    5                    10                    15

Arg Asp Pro Asp Ser Gly Arg Thr His Gln Ile Arg Ser His Leu Lys  
                   20                    25                    30

His Tyr Ser Asn Phe Pro Val Ala Asp Ala Asn Ala Pro Lys Ala Ser  
                   35                    40                    45

Ala Ile  
       50

<210> 297  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<220>  
 <221> MISC\_FEATURE  
 <222> (41)..(41)  
 <223> X is any amino acid

<400> 297

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gln Val  
 1                    5                    10                    15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys  
                   20                    25                    30

03-15-SEQ LIST-410\_ST25

Thr Asp Ser Tyr Ile Gly Trp Asn Xaa Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 298  
<211> 48  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 298

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Leu  
1 5 10 15

Asp Val Asn Asp Glu Lys Arg Pro Pro Gly Trp Tyr Arg Thr Asn Ile  
20 25 30

Ile Asp Ser Pro Ser Gly Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile  
35 40 45

<210> 299  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 299

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Arg Arg  
1 5 10 15

Tyr Arg Asp Gly Ile Phe Arg Arg Met Arg Ser Asx Thr Asn Ala Arg  
20 25 30

Gly Ala Arg His Ala Asp Leu Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 300  
<211> 50  
<212> PRT  
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03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 300

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Cys  
1 5 10 15

His Val Arg Arg Lys Glu Ser Ala Ser Ser Lys Asn Arg His Asn His  
20 25 30

Thr Trp His Asp Ser Asn Leu Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 301

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 301

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Arg Thr  
1 5 10 15

Leu Leu Ile Arg Leu Tyr Pro Pro Asp Arg Phe Gly Ser Ser Arg Gln  
20 25 30

Met Ala Thr Arg Asp Ser Phe Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 302

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 302

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Gly  
1 5 10 15

Met Tyr Val Val Ser Lys Pro Ala Ser Asp Ser Trp Thr Thr Cys Ala  
20 25 30

03-15-SEQ LIST-410\_ST25

Pro Tyr Thr Tyr Gly Thr Met Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
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<210> 303  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 303

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Leu  
1 5 10 15

Ser Thr Ile Arg Asx Met Asn Arg His Leu Thr Asp Arg Arg Leu Thr  
20 25 30

Ala Phe Arg Asn Gln Val Val Phe Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 304  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 304

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Asn  
1 5 10 15

Ala Trp Trp Tyr His Ile Gln Ser His Leu His Gln Trp Arg Arg His  
20 25 30

Arg Leu Tyr Thr Ala Asn Gln Trp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 305

03-15-SEQ LIST-410\_ST25

<211> 50  
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 <213> Artificial Sequence

<220>  
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<400> 305

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
 1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
 20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 306  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 306

Met Gly Arg Gly Ser His His His His His His Ala Arg Pro Asn Val  
 1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
 20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 307  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 307

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
 1 5 10 15

03-15-SEQ LIST-410\_ST25

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 308  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 308

Met Gly Arg Gly Ser His His His His His Arg Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Ser Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Thr  
35 40 45

Ala Ile  
50

<210> 309  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 309

Ile Glu Arg Gly Ser Gln His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Thr Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Thr  
35 40 45

Ala Ile

50

<210> 310  
 <211> 49  
 <212> PRT  
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<220>  
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 <400> 310

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
 1 5 10 15

Ile Thr Leu Ser Glu Val Trp Asp Thr Gly Trp Asn Arg Pro Leu Arg  
 20 25 30

Gln Arg Cys Arg Ser Glu Thr Asp Asp Asn Ala Gln Lys Ala Asn Asp  
 35 40 45

Ile

<210> 311  
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 <212> PRT  
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<220>  
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 <400> 311

Met Gly Arg Gly Ser His His His His His Arg Ala Arg Ser Asn Val  
 1 5 10 15

Ile Pro Leu Ser Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
 20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 312  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism



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<400> 312

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
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<210> 313

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence, no source organism

<400> 313

Met Gly Arg Gly Ser Tyr His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 314

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 314

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Asn Ala Asn Ala Pro Lys Ala  
Page 113

35 03-15-SEQ LIST-410\_ST25 40 45

Ser Ala Ile  
50

<210> 315  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 315

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asn Ala Asn Ala Pro Lys Ala Thr  
35 40 45

Ala Ile  
50

<210> 316  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 316

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Cys Arg Asn Ala Asn Ala Pro Lys Ala Thr  
35 40 45

Ala Ile  
50

<210> 317  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 317

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 318

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 318

Met Gly Arg Gly Ser His His His His His His Leu Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 319

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 319

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Trp  
1 5 10 15

Thr Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Ala  
Page 115

20

Thr Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala  
35 40 45

Ser Ala Ile  
50

<210> 320  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 320

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 321  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 321

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser Ala  
1 5 10 15

Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His His  
20 25 30

Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

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<210> 322  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 322

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
 1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr  
 20 25 30

Val Lys Arg Pro Tyr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 323  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<220>  
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 <222> (37)..(37)  
 <223> X is any amino acid

<400> 323

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Val  
 1 5 10 15

Asn Pro Met Arg Glu Val Arg Cys Asn Ala Arg Cys Ile Arg Lys His  
 20 25 30

Arg Phe Arg Leu Xaa Ile Arg Asp Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 324  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 324

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 325

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 325

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Leu  
1 5 10 15

Leu Leu Asn Glu Thr Tyr Arg Arg Tyr Arg Ser Trp Asp Glu Tyr Arg  
20 25 30

Asn Asp Ile Gly Ser Asn Leu Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 326

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 326

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gly His  
1 5 10 15

Arg Glu Ser Asn Arg Val Asn Ser Asn Tyr Ala Asp Gln Leu His Ser  
20 25 30

03-15-SEQ LIST-410\_ST25

Thr Pro Ile Leu Asn Thr Trp Asn Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 327  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 327

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Gly  
1 5 10 15

Gln Ile Pro Tyr Lys Tyr Gly Asp Ala Ile Pro Ser Met Leu Thr His  
20 25 30

Asn Ala Glu Asn Gln Pro His Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 328  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 328

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Pro  
1 5 10 15

Arg Leu Arg Lys Val Tyr Asp Leu Thr Val Thr Thr Thr Ser Ser Gln  
20 25 30

Ile Asp Lys Leu Gln Pro Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 329

03-15-SEQ LIST-410\_ST25

<211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 329

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Glu Gly  
 1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
 20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 330  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 330

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Arg  
 1 5 10 15

Pro Ile Leu Val Val Lys Tyr Pro Pro Tyr Leu Gln Thr Leu Asp Asn  
 20 25 30

Lys Arg Asp Ile Arg Gln Met Asp Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 331  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 331

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Asn  
 1 5 10 15



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Asn Thr Lys His Tyr Thr Val Val Thr Trp Cys Tyr Leu Glu Arg Lys  
20 25 30

Asn Gln Asn Leu Thr Ser His Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
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<210> 332  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 332

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Leu  
1 5 10 15

Arg Ser Ala Ser Cys Ser Ala Leu Thr Asp His Lys Arg Val Ala Tyr  
20 25 30

Ala Cys Thr His Thr Glu Tyr Lys Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 333  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 333

Met Gly Arg Asp Ser His His His His His His Ala Arg Ser Ile Ala  
1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val  
20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile

50

<210> 334  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 334

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Leu  
 1 5 10 15

Leu Leu Asn Glu Thr Tyr Arg Arg Tyr Arg Ser Trp Asn Glu Tyr Arg  
 20 25 30

Asn Asp Ile His Ser Asn Leu Asp Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 335  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 335

Met Gly Arg Gly Ser His His His His His His Thr Arg Ser Glu Glu  
 1 5 10 15

Asn Arg Gln Trp Arg Asn Glu Gly Ser Thr Pro Phe Ser Ser Leu Ile  
 20 25 30

Ser Asp Met Ser Lys Pro Ile Val Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 336  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

03-15-SEQ LIST-410\_ST25

<400> 336

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Val  
1 5 10 15

Thr Arg Leu Leu Arg Thr His Arg Glu Glu Lys Val Phe Glu Pro Ser  
20 25 30

Pro Thr Gly Pro Ser Glu Lys His Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 337

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence, no source organism

<400> 337

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asp Met Asp  
1 5 10 15

Leu Trp Asp Leu Pro Ala Leu Ala Pro Gln Ser Thr Thr Met Gln Met  
20 25 30

His Ser Phe Thr His Met Lys Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 338

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence, no source organism

<400> 338

Met Arg Arg Gly Ser His His His His His His Ala Arg Ser Arg Arg  
1 5 10 15

Val Thr Thr Glu Gly Gly Pro Lys Trp Ile Pro Gly His His Met Arg  
20 25 30

Asp Asn Ile Pro Glu Ile Ala Asn Asp Ala Asn Ala Pro Lys Ala Ser  
Page 123

35 03-15-SEQ LIST-410\_ST25 40 45

Ala Ile  
50

<210> 339  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 339

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gly  
1 5 10 15

Leu Ser Gly Thr Gln Thr Trp Lys Ile Thr Lys Leu Ala Thr Arg Leu  
20 25 30

His His Pro Glu Phe Glu Thr Asn Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 340  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 340

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Trp Asn  
1 5 10 15

Gly Arg Pro Leu His His Leu Asp His Gln Trp Tyr Pro Asp Glu Ala  
20 25 30

Arg Leu His Ala Ile His Asn Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 341  
<211> 50  
<212> PRT  
<213> Artificial Sequence

03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 341

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Asn  
1 5 10 15

Arg Gly Val Asn His Thr Gly Gln Met Arg Thr Met Pro Pro Ala Pro  
20 25 30

Thr Val Glu Arg Ala Leu Asn Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 342

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 342

Thr Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro Leu  
1 5 10 15

Glu Leu Tyr Val Ile Thr Arg Asp Ala Arg Thr Asp Thr Gly Pro Ser  
20 25 30

Ser Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile  
35 40 45

<210> 343

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 343

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Pro Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
Page 125

35 03-15-SEQ LIST-410\_ST25 40 45

Ala Ile  
50

<210> 344  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 344

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val Ile  
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg  
20 25 30

Ser Ser Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 345  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 345

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 346  
<211> 50  
<212> PRT  
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03-15-SEQ LIST-410\_ST25

<220>

<223> Synthetic sequence, no source organism

<400> 346

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asn Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 347

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 347

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly Thr  
1 5 10 15

Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His  
20 25 30

Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 348

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 348

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly Thr  
1 5 10 15

Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His  
Page 127

20 03-15-SEQ LIST-410\_ST25 25 30

Lys Leu Ser His Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 349  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 349

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 350  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 350

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Pro Leu Trp  
1 5 10 15

Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp Leu Lys  
20 25 30

Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile



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<210> 351  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 351

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
 1 5 10 15

Ala Leu Met Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
 20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 352  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 352

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
 1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
 20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 353  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 353

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser Ala  
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1                      5                      10                      15

Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His His  
20                      25                      30

Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35                      40                      45

Ile

<210> 354  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 354

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1                      5                      10                      15

Ala Thr Arg Asn Gly Phe Val Met Asn Thr Asp Arg Gly Thr Tyr Val  
20                      25                      30

Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35                      40                      45

Ile

<210> 355  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 355

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1                      5                      10                      15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr  
20                      25                      30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser  
35                      40                      45

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Ala Ile  
50

<210> 356  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism  
<400> 356

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 357  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism  
<400> 357

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Phe  
1 5 10 15

Asn Lys Val Gly Arg Val Asp Ser Glu Phe Gly Thr Lys Ala Asn Ser  
20 25 30

His Gln Ile Pro Ser Gly Glu Leu Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 358  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism  
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<400> 358

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Lys  
1 5 10 15

Tyr Trp Met Ile Pro Ser Trp Asn Leu Tyr Pro Trp Leu Leu Met Tyr  
20 25 30

Asp Thr Leu Ile His Pro Thr Met Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 359

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 359

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Trp  
1 5 10 15

Thr Arg Met Gln Ile Pro Thr Ser Trp Tyr Trp Tyr Thr Tyr Trp Ile  
20 25 30

Asn His Leu Gln Lys His Asp Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 360

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 360

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala  
20 25 30

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Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 361  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism

<400> 361

Met Gly Arg Gly Ser His His His His His Asp Ala Arg Ser Ser His  
1 5 10 15

Trp Ser Asn Ala Asp His Ile Gly Pro Ser Arg Cys Leu Gly Cys Thr  
20 25 30

Met Thr Thr Leu Ile Arg Leu Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 362  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism

<400> 362

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Arg Ser  
1 5 10 15

Ile Pro Val Arg Ile Gln Gly Asn Pro Gly Asn Ser His Tyr Arg Leu  
20 25 30

Met Gly Ala Ser Met Val His Gly Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 363  
<211> 50  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 363

Met Gly Arg Asp Ser His His His His His His Ala Arg Ser Ile Ala  
1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val  
20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 364

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 364

Met Gly Arg Ser His His His His His His Ala Arg Ser Gly Lys Phe Arg  
1 5 10 15

His Glu Ile Tyr Asn Met Glu Trp Pro Leu Ala Leu Glu Arg Tyr Trp  
20 25 30

Asp Tyr His Gly Glu Pro Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile  
35 40 45

<210> 365

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 365

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Glu  
1 5 10 15

Thr Thr Thr Thr Ser Leu Met Asn Glu Glu Asp Ala Trp Asn Trp Thr  
20 25 30

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Ile Glu Lys Ser Arg His Ile Glu Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 366  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> synthetic sequence, no source organism

<400> 366

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Met  
 1 5 10 15

Tyr Met His Trp Gln Trp Ala Val Asn Arg Met Gly His Ala Thr Ala  
 20 25 30

Met Ser Thr Leu Ala Asn Ala Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 367  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> synthetic sequence, no source organism

<400> 367

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Asp  
 1 5 10 15

Ile Pro Leu Asn Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg  
 20 25 30

Ser Arg Leu Thr Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala  
 35 40 45

Ile

<210> 368  
 <211> 49  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 368

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 369

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 369

Met Gly Arg Gly Ser His His His His His Arg Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 370

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 370

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15



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Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 371  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 371

Met Gly Arg Gly Ser His His His His His His Thr Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 372  
<211> 48  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 372

Met Gly Arg Gly Ser His His His Gln His Asn Ala Arg Ser Val Ala  
1 5 10 15

Thr Thr Ile Pro Asp Arg Pro Gly His Gly Thr Leu Pro Glu Arg Leu  
20 25 30

Pro Gln Ala Leu Pro Glu Leu Pro Gly Arg Arg Ser Glu Gly Ile Arg  
35 40 45

<210> 373  
<211> 49  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 373

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 374

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 374

Met Gly Arg Gly Ser His Tyr His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 375

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 375

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly Thr  
1 5 10 15

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Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His  
20 25 30

Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

<210> 376  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism

<400> 376

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 377  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic sequence, no source organism

<400> 377

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gln  
1 5 10 15

Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly  
20 25 30

Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 378  
<211> 49  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 378

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His  
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 379

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 379

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr  
20 25 30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 380

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 380

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

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Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 381  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 381

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gln Val  
1 5 10 15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys  
20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Glu Leu Thr Leu Arg Arg His Pro  
35 40 45

Leu

<210> 382  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 382

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Gly  
1 5 10 15

Gly Pro Thr Gly Thr Ser Ala Ser Ala Gly Pro Thr Ser Ala Thr Arg  
20 25 30

Ser Pro Pro Gly Gly Pro Arg Arg Thr Leu Thr Leu Arg Arg His Pro  
35 40 45

Leu

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<210> 383  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 383

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gly Lys  
 1 5 10 15

Val Arg Gly His Thr Lys Glu Thr Pro Pro Thr Glu Phe Gly Leu Ser  
 20 25 30

Leu Met Asp Ala Asn Ala Pro Lys Ala Ser Ala  
 35 40

<210> 384  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 384

Met Gly Arg Gly Ser His His His His His His Leu Asp Leu Trp Gly  
 1 5 10 15

Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Gly Thr Ser Thr  
 20 25 30

Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro  
 35 40 45

His

<210> 385  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 385

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro Thr  
 1 5 10 15

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Met Arg Arg His Ile Arg Arg Ala Leu Tyr Pro Tyr Ser Thr Arg Arg  
20 25 30

Ser Leu Leu Thr Ser Ala Pro Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 386  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 386

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Val  
1 5 10 15

His Trp Ser Tyr Cys Gly Ala Glu Val Lys Lys Asp Trp Tyr Gln His  
20 25 30

Thr Ala Trp Thr Lys Asn His Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 387  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 387

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Met  
1 5 10 15

Asn Thr Arg Arg Met Asp Ile Arg Asn Leu Ile Thr Lys Arg Val Lys  
20 25 30

Lys Asp Tyr Ser Pro Gly Ser Lys Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

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<210> 388  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 388

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Asp  
 1 5 10 15

Asp Thr Gly His Leu Leu His Thr Gly Arg Leu Met Arg Thr Pro Ser  
 20 25 30

Thr Asn Ser Trp His Thr Leu Asn Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala

<210> 389  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 389

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Leu  
 1 5 10 15

Asn Lys Val Gly Arg Val Asp Ser Glu Phe Gly Thr Lys Ala Asn Ser  
 20 25 30

His Gln Ile Pro Ser Gly Glu Leu Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala

<210> 390  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism  
 <400> 390



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Met Gly Arg Gly Ser His His His His His His Ala Arg Ser His Ser  
1 5 10 15

Arg His Glu Trp Thr Ser Thr Pro Arg Arg Arg Arg Ser Thr Gly Pro  
20 25 30

Gly Ser Arg Trp Ala Ser Gly Thr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 391  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 391

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gly Arg  
1 5 10 15

Tyr His Arg Asp Arg Trp Leu Ala Thr Met Arg Tyr Pro Asp Pro Ser  
20 25 30

Gln Val Trp Ser Arg Tyr Val Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala

<210> 392  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 392

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala  
20 25 30

Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

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Ala

<210> 393  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 393

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro Leu  
 1 5 10 15

Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp Leu  
 20 25 30

Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala

<210> 394  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 394

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val Ile  
 1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg  
 20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala  
 35 40 45

Ile

<210> 395  
 <211> 48  
 <212> PRT  
 <213> Artificial Sequence

<220>

03-15-SEQ LIST-410\_ST25

<223> Synthetic sequence, no source organism

<400> 395

Met Gly Leu Leu His His His His His Ala Arg Ser Asn Val Ile Pro  
1 5 10 15

Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg Ser  
20 25 30

Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile  
35 40 45

<210> 396

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 396

Met Gly Arg Ser Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 397

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 397

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

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Ala Ile  
50

<210> 398  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 398

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Asn

<210> 399  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 399

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val  
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His  
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 400  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 400

Met Gly Arg Ser His His His His His His Ala Arg Ser Asn Val Ile  
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg  
20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala  
35 40 45

Ile

<210> 401

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 401

Met Gly Arg Ser His His His His His His Ala Arg Ser Asn Val Ile  
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg  
20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Arg  
35 40 45

<210> 402

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 402

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

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Ala Ile  
50

<210> 403  
<211> 44  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 403

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala  
35 40

<210> 404  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 404

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly  
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr  
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 405  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 405

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Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr  
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr  
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 406  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 406

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu  
1 5 10 15

Ala Thr Arg Asn Gly Phe Glu Gln Met Asn Thr Asp Arg Gly Thr Tyr  
20 25 30

Val Lys Arg Thr Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 407  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism  
<400> 407

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg  
1 5 10 15

Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp  
20 25 30

Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

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Ala Ile  
50

<210> 408  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 408

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Pro  
1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp  
20 25 30

Leu Lys Asp Arg Pro His Gly Val Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 409  
<211> 51  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence, no source organism

<400> 409

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Pro  
1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp  
20 25 30

Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala  
35 40 45

Ser Ala Ile  
50

<210> 410  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>



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<223> Synthetic sequence, no source organism

<400> 410

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gly Arg  
1 5 10 15

Tyr His Arg Asp Arg Trp Leu Ala Thr Met Arg Tyr Pro Asp Pro Ser  
20 25 30

Gln Val Trp Ser Arg Tyr Val Pro Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 411

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 411

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met  
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys  
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50

<210> 412

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 412

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Leu  
1 5 10 15

Tyr Ile Thr Gly Glu Phe Lys Arg Gln Thr Asp Asn Asn Gly Ser Glu  
20 25 30

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Leu Arg Arg Met Ser Arg Pro Arg Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 413  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic sequence, no source organism

<400> 413

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Cys  
 1 5 10 15

Leu Ile Ser Leu Thr Ala Glu Glu Lys Ala Leu Asn Arg Met Met Asn  
 20 25 30

Val Ser Val Pro Arg Val Met Thr Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 414  
 <211> 50  
 <212> PRT  
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<220>  
 <223> Synthetic sequence, no source organism

<400> 414

Met Gly Arg Asp Ser His His His His His His Ala Arg Ser Ile Ala  
 1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val  
 20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser  
 35 40 45

Ala Ile  
 50

<210> 415  
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03-15-SEQ LIST-410\_ST25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 415

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser  
1 5 10 15

Arg Leu Ala Thr Val Leu Asp Glu Pro Asp Arg Ser Leu Gln Thr Arg  
20 25 30

Thr Asn Arg Pro His Arg Met Ile Asp Ala Asn Ala Pro Lys Ala Ser  
35 40 45

Ala Ile  
50